

## FAA CERTIFICATION PERFORMANCE OF JOB TASKS

Applicant's Last Name: First Name: Middle Initial: SSN:

Military Job Classification:

Military Job Classification Description Title:

### NOTES:

1. Federal Aviation Regulation Training Levels.

FAR LEVEL 1 = Know basic facts and principles. Be able to find information, and follow directions and written instructions. Skill demonstration is **not** required.

FAR LEVEL 2 = Know and understand principles, theories and concepts. Be able to find and interpret information and perform basic operations. A high level of skill is **not** required.

FAR LEVEL 3 = Know, understand, and apply facts, principles, theories and concepts. Understand how they relate to the total operation and maintenance of aircraft. Be able to make independent and accurate airworthiness judgments. Perform all operations to a return-to-service standard. A fairly high skill level **is** required.

2. Only a certified A&P mechanic, E-6 or above (military), or a WG-10 or above (civilian), qualified in the appropriate specialty, can verify completion of a task. (Example: Propulsion specialist for powerplant, etc.)

3. Authorized Final Approving Authorities:

Army: Production Control Officer

Air Force: Aircraft Maintenance Officer (O-3 or above)

Navy: Maintenance Officer

Coast Guard: Engineering Officer

Marines: Aircraft Maintenance Officer

I certify that \_\_\_\_\_ has successfully satisfied the established FAA requirements for the (Circle one) Airframe, Powerplant, or Airframe and Powerplant Certificates, including a total of \_\_\_\_\_ months of combined experience while performing the duties within the career field of aviation maintenance (**Note 3**).

Signature of Approving Authority \_\_\_\_\_ Print Name \_\_\_\_\_

Unit \_\_\_\_\_

**Applicant's Last Name:** \_\_\_\_\_ **First Name:** \_\_\_\_\_ **Middle Initial:** \_\_\_\_\_ **SSN:** \_\_\_\_\_

**First Name:**

SSN:

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I certify that I am qualified in the specialties I have initialed and the applicant has completed all formal and on-the-job training requirements for each task (**Note 2**).

[illegible]

**\*\* There are severe criminal and civil penalties for knowingly submitting a false, fictitious, or fraudulent statement of completed training. The U.S. Criminal Code (Title 18, Section 1001) provides that knowingly falsifying or concealing a material fact is a felony, which may result in fines up to \$10,000, and/or 5 years imprisonment, or both.\*\***

Signature of Approving Authority \_\_\_\_\_ Date \_\_\_\_\_

Unit

CG-G-EAE-2 (07/01)

GENERAL CURRICULUM SUBJECTS Appendix B		FAR LEVEL (Note 1)	Formal Trng Initials	Completion Date	OJT Initials	Completion Date
<b>A. Basic Electricity</b>						
*1. Calculate and measure capacitance and inductance	(2)					
*2. Calculate and measure electrical power	(2)					
*3. Measure voltage, current, resistance, and continuity	(3)					
*4. Determine the relationship of voltage, current, and resistance in electrical circuits	(3)					
*5. Read and interpret aircraft electrical circuit diagrams, including solid state devices and logic functions	(3)					
*6. Inspect and service batteries	(3)					
<b>B. Aircraft Drawings</b>						
*7. Use aircraft drawings, symbols, and system schematics	(2)					
*8. Draw sketches of repairs and alterations	(3)					
*9. Use blueprint information	(3)					
*10. Use graphs and charts	(3)					
<b>C. Weight and Balance</b>						
11. Weigh aircraft	(2)					
*12. Perform complete weight and balance check and record data	(3)					
<b>D. Fluid Lines and Fittings</b>						
*13. Fabricate and install rigid and flexible fluid lines and fittings	(3)					
<b>E. Materials and Processes</b>						
*14. Identify and select appropriate non-destructive testing methods	(1)					
*15. Perform dye penetrant, eddy current, ultrasonic, and magnetic particle inspections	(2)					
*16. Perform basic heat-treating processes	(1)					
*17. Identify and select aircraft hardware and materials	(3)					
*18. Inspect and check welds	(3)					
*19. Perform precision measurements	(3)					
<b>F. Ground Operation and Servicing</b>						
*20. Start, ground operate, move, service, and secure aircraft and identify typical ground operation hazards	(2)					
*21. Identify and select fuels	(2)					
<b>G. Cleaning and Corrosion Control</b>						
*22. Identify and select cleaning materials	(3)					
*23. Inspect, identify, remove, and treat aircraft corrosion and perform aircraft cleaning	(3)					
<b>H. Mathematics</b>						
*24. Extract roots and raise numbers to a given power	(3)					
*25. Determine areas and volumes of various geometrical shapes	(3)					
*26. Solve ratio, proportion, and percentage problems	(3)					
*27. Perform algebraic operations involving addition, subtraction, multiplication, and division of positive and negative numbers	(3)					

GENERAL CURRICULUM SUBJECTS Appendix B		FAR LEVEL (Note 1)	Formal Trng Initials	Completion Date	OJT Initials	Completion Date
<b>I. Maintenance Forms and Records</b>						
*28. Write descriptions of work performed, including aircraft discrepancies and corrective actions using typical aircraft maintenance records	(3)					
*29. Complete required maintenance forms, records, and inspection reports	(3)					
<b>J. Basic Physics</b>						
*30. Use and understand the principles of simple machines; sound, fluid, and heat dynamics; basic aerodynamics; aircraft structures; and theory of flight	(2)					
<b>K. Maintenance Publications</b>						
*31. Demonstrate ability to read, comprehend, and apply information contained in FAA and manufacturers' aircraft maintenance specifications, data sheets, manuals, publications, and related Federal Aviation Regulations, Airworthiness Directives, and Advisory materials	(3)					
*32. Read technical data	(3)					
<b>L. Mechanic Privileges and Limitations</b>						
*33. Exercise mechanic privileges within the limitations prescribed by FAR 65	(3)					
<b>AIRFRAME CURRICULUM SUBJECTS Appendix C</b>		FAR LEVEL (Note 1)	Formal Trng Initials	Completion Date	OJT Initials	Completion Date
<b>I. AIRFRAME STRUCTURES</b>						
<b>A. Wood Structures</b>						
1. Service and repair wood structures	(1)					
2. Identify wood defects	(1)					
3. Inspect wood structures	(1)					
<b>B. Aircraft Covering</b>						
4. Select and apply fabric and fiberglass covering materials	(1)					
5. Inspect, test, and repair fabric and fiberglass	(1)					
<b>C. Aircraft Finishes</b>						
6. Apply trim, letters, and touchup paint	(1)					
7. Identify and select aircraft finishing materials	(2)					
8. Apply finishing materials	(2)					
*9. Inspect finishes and identify defects	(2)					

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<b>D. Sheet Metal and Non-Metallic Structures</b>					
*10. Select, install, and remove special fasteners for metallic, bonded, and composite structures	(2)				
*11. Inspect bonded structures	(2)				
*12. Inspect, test, and repair fiberglass, plastics, honeycomb, composite, and laminated primary and secondary structures	(2)				
*13. Inspect, check, service, and repair windows, doors, and interior furnishings	(2)				
*14. Inspect and repair sheet-metal structures	(3)				
*15. Install conventional rivets	(3)				
*16. Form, lay out, and bend sheet-metal	(3)				
<b>E. Welding</b>					
17. Weld magnesium and titanium	(1)				
18. Solder stainless steel	(1)				
19. Fabricate tubular structures	(1)				
*20. Solder, braze, gas-weld, and arc-weld steel	(2)				
21. Weld aluminum and stainless steel	(1)				
<b>F. Assembly and Rigging</b>					
*22. Rig rotary-wing aircraft	(1)				
*23. Rig fixed-wing aircraft	(2)				
*24. Check alignment of structures	(2)				
*25. Assemble aircraft components, including flight control surfaces	(3)				
*26. Balance, rig and inspect movable primary and secondary flight control surfaces	(3)				
*27. Jack aircraft	(3)				
<b>G. Airframe Inspection</b>					
*28. Perform airframe conformity and airworthiness inspections	(3)				
<b>II. AIRFRAME SYSTEMS AND COMPONENTS</b>					
<b>A. Aircraft Landing Gear Systems</b>					
*29. Inspect, check, service, and repair landing gear, retraction systems, shock struts, brakes, wheels, tires, and steering systems	(3)				
<b>B. Hydraulic and Pneumatic Power Systems</b>					
*30. Repair hydraulic and pneumatic power system components	(2)				
*31. Identify and select hydraulic fluids	(3)				
*32. Inspect, check, service, troubleshoot, and repair hydraulic and pneumatic power systems	(3)				
<b>C. Cabin Atmosphere Control Systems</b>					
*33. Repair heating, cooling, air-conditioning, pressurization, and oxygen system components.	(1)				
*34. Inspect, check, troubleshoot, service, and repair heating, cooling, air-conditioning, and pressurization systems	(1)				
*35. Inspect, check, troubleshoot, service, and repair oxygen systems	(2)				

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<b>D. Aircraft Instrument Systems</b>					
*36. Inspect, check, service, troubleshoot, and repair electronic flight instrument systems and both mechanical and electrical heading, speed, altitude, temperature, pressure, and position indicating systems to include the use of built-in test equipment	(1)				
*37. Install instruments and perform a static pressure system leak test	(2)				
<b>E. Communication and Navigation Systems</b>					
*38. Inspect, check, and troubleshoot autopilot, servos and approach coupling systems	(1)				
*39. Inspect, check, and service aircraft electronic communication and navigation systems, including VHF, passenger address interphones and static discharge devices, aircraft VOR, ILS, LORAN, radar beacon transponders, flight management computers and GPWS	(1)				
*40. Inspect and repair antenna and electronic equipment installations	(2)				
<b>F. Aircraft Fuel Systems</b>					
*41. Check and service fuel dump systems	(1)				
*42. Perform fuel management, transfer and defueling	(1)				
*43. Inspect, check, and repair pressure fueling systems	(1)				
*44. Repair aircraft fuel system components	(2)				
*45. Inspect and repair fluid quantity indicating systems	(2)				
*46. Troubleshoot, service, and repair fluid pressure and temperature warning systems	(2)				
*47. Inspect, check, service, troubleshoot, and repair aircraft fuel systems	(3)				
<b>G. Aircraft Electrical Systems</b>					
*48. Repair and inspect aircraft electrical system components; crimp and splice wiring to manufacturers' specifications; and repair pins and sockets of aircraft connectors	(2)				
*49. Install, check, and service airframe electrical wiring, controls, switches, indicators and protective devices	(3)				
*50a. Inspect, check, troubleshoot, service, and repair alternating and direct current electrical systems	(3)				
*50b. Inspect, check, and troubleshoot constant speed and integrated speed drive generators	(1)				
<b>H. Position and Warning Systems</b>					
*51. Inspect, check, and service speed and configuration warning systems, electrical brake controls, and anti-skid systems	(2)				
*52. Inspect, check, troubleshoot, and service landing gear position indicating and warning systems	(3)				
<b>I. Ice and Rain Control Systems</b>					
*53. Inspect, check, troubleshoot, service, and repair airframe ice and rain control systems	(2)				

AIRFRAME CURRICULUM SUBJECTS Appendix C	FAR LEVEL (Note 1)	Formal Trng Initials	Completion Date	OJT Initials	Completion Date
<b>J. Fire Protection Systems</b>					
*54. Inspect, check, and service smoke and carbon monoxide detection systems	(1)				
*55. Inspect, check, troubleshoot, and repair aircraft fire detection and extinguishing systems	(3)				
<b>POWERPLANT CURRICULUM SUBJECTS Appendix D</b>					
<b>I. POWERPLANT THEORY AND MAINTENANCE</b>					
<b>A. Reciprocating Engines</b>					
1. Inspect and repair a radial engine	(1)				
2. Overhaul reciprocating engines	(2)				
3. Inspect, check, service, and repair reciprocating engines and engine installations	(3)				
4. Install, troubleshoot, and remove reciprocating engines	(3)				
<b>B. Turbine Engines</b>					
*5. Overhaul turbine engines	(2)				
*6. Inspect, check, service, and repair turbine engines and turbine engine installations	(3)				
*7. Install, troubleshoot, and remove turbine engines	(3)				
<b>C. Engine Inspection</b>					
*8. Perform powerplant conformity and airworthiness inspections	(3)				
<b>II. POWERPLANT SYSTEMS AND COMPONENTS</b>					
<b>A. Engine Instrument Systems</b>					
*9. Troubleshoot, service, and repair electrical and mechanical fluid rate-of-flow indicating systems	(2)				
*10. Inspect, check, service, troubleshoot, and repair electrical and mechanical engine temperature, pressure, and R.P.M. indicating systems	(3)				
<b>B. Engine Fire Protection Systems</b>					
*11. Inspect, check, service, troubleshoot, and repair engine fire detection and extinguishing systems	(3)				
<b>C. Engine Electrical Systems</b>					
*12. Repair engine electrical system components	(2)				
*13. Install, check, and service engine electrical wiring, controls, switches, indicators, and protective devices	(3)				

POWERPLANT CURRICULUM SUBJECTS Appendix D		FAR LEVEL (Note 1)	Formal Trng Initials	Completion Date	OJT Initials	Completion Date
<b>D. Engine Lubricating Systems</b>						
*14. Identify and select lubricants	(2)					
*15. Repair engine lubrication system components	(2)					
*16. Inspect, check, service, troubleshoot, and repair engine lubrication systems	(3)					
<b>E. Ignition and Starting Systems</b>						
*17. Overhaul magnetos and ignition harnesses	(1)					
*18. Inspect, service, troubleshoot, and repair reciprocating and turbine engine ignition systems and components	(2)					
*19a. Inspect, service, troubleshoot, and repair turbine engine electrical starting systems	(3)					
*19b. Inspect, service, and troubleshoot turbine engine pneumatic starting systems	(1)					
<b>F. Fuel Metering Systems</b>						
*20. Troubleshoot and adjust turbine engine fuel metering systems and electronic engine fuel controls	(1)					
21. Overhaul carburetors	(1)					
*22. Repair engine fuel metering system components	(2)					
*23. Inspect, check, service, troubleshoot, and repair reciprocating and turbine engine fuel metering systems	(3)					
<b>G. Engine Fuel Systems</b>						
*24. Repair engine fuel system components	(2)					
*25. Inspect, check, service, troubleshoot, and repair engine fuel systems	(3)					
<b>H. Induction and Airflow Systems</b>						
*26. Inspect, check, troubleshoot, service, and repair engine ice and rain control systems	(1)					
*27. Inspect, check, troubleshoot, service, and repair heat exchangers, supercharger and turbine engine airflow and temperature control systems	(1)					
*28. Inspect, check, service, and repair carburetor air intake and induction manifolds	(1)					
<b>I. Engine Cooling Systems</b>						
*29. Repair engine cooling system components	(1)					
*30. Inspect, check, troubleshoot, service, and repair engine cooling systems	(1)					
<b>J. Engine Exhaust System Components</b>						
*31. Repair engine exhaust system components	(2)					
*32a. Inspect, check, troubleshoot, service, and repair engine exhaust systems	(3)					
*32b. Troubleshoot and repair engine thrust reverser systems and related components	(1)					

<b>POWERPLANT CURRICULUM SUBJECTS Appendix D</b>	<b>FAR LEVEL (Note 1)</b>	<b>Formal Trng Initials</b>	<b>Completion Date</b>	<b>OJT Initials</b>	<b>Completion Date</b>
<b>K. Propellers</b>					
*33. Inspect, check, service, and repair propeller synchronizing and ice control systems	(1)				
*34. Identify and select propeller lubricants	(2)				
*35. Balance propellers	(1)				
*36. Repair propeller control system components	(2)				
*37. Inspect, check, service, and repair fixed-pitch, constant-speed, and feathering propellers and propeller governing systems	(3)				
*38. Install, troubleshoot, and remove propellers	(3)				
*39. Repair aluminum alloy propeller blades	(3)				
<b>L. Auxiliary Power Units</b>					
40. Inspect, check, service and troubleshoot turbine-driven auxiliary power units	(2)				
<b>M. Aviation Safety</b>					
*41. Fuels, lubricants, or hydraulic fluids	(1)				
*42. Flammable cements, rosins, sealants, paints and thinners	(1)				
*43. Fluids under pressure	(1)				
*44. Compressed gasses, including oxygen	(1)				
*45. Batteries	(1)				
*46. Aviation ordnance and pyrotechnics	(1)				
*47. Electrical and electronic circuits	(1)				
*48. Operating radio transmitters and radar systems	(1)				
*49. Hazardous noise sources	(1)				

NOTE: Items with an asterisk (\*) indicate a mandatory task to be accomplished. Non-asterisked items are optional tasks and do not require a signature, but the information is testable on the computerized written exams, as well as the oral and practicals.